Catalogue No. 10. Pocket Edition.

The Willer Manufacturing Co.

Fourth and Cedar Sts.

Milwaukee, Wis.

C. H. VAN HOUTEN, Agent,
Room 20, Washington Block, Portland, Ore.

Our Large Complete Catalogue No. 9

ARCHITECTS' AND BUILDERS' EDITION

Will be mailed free only to all architects, and to such contractors, builders and others who actually desire to favor us with an order and require the catalogue for that purpose.

This catalogue consists of 132 pages, size 9x12 inches, and contains complete instructions for ordering and fitting, full size sections of window frames, guide-ways, etc., illustrations and designs for fine modern stair-work, etc., and is of practical value only to the profession.

We cannot afford to send this catalogue free to any one simply wanting to see it out of curiosity; we will however mail it to any one on receipt of the following named amount in postage stamps.

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Pocket Edition.

THE "WILLER" SLIDING BLINDS, . . .

. . . THE "WILLER" FOLDING BLINDS,

. . "REGULAR" INSIDE FOLDING BLINDS, . .

THE "WILLER" SLIDING WINDOW SCREENS,

. . CUSTOM MADE SCREEN DOORS, . .

STAIR WORK, NEWELS, RAILS AND BALUSTERS.

The Willer Manufacturing Company,

SOLE MANUFACTURERS,

FOURTH AND CEDAR STREETS,

MILWAUKEE, = WISCONSIN.

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TO THE PUBLIC.

WE publish this Pocket Edition Catalogue for the purpose of making the general public acquainted with the goods and the specialties we manufacture in the building line, and to present to them, in a brief and concise form, illustrations and descriptions of such goods.

The information herein given is sufficient for the general public to fully understand and to comprehend the merits and the quality of the goods we manufacture. Our large catalogue, Architects' and Builders' Edition, is necessary only and will be furnished only in cases where it is desired to favor us with an order.

That this firm is considered pre-eminent in its particular line of manufacture is evinced by the fact that the leading Architects all over the country, as well as Contractors and Builders who have had an opportunity of using our goods, unhesitatingly pronounce them superior to all others of the same class, and continue to use them in preference to any other whenever an opportunity to do so presents itself.

If you are building you certainly will be in need of some of the goods herein represented, and we confidently look forward to receiving from you further enquiries.

Yours truly,

THE WILLER MANUFACTURING CO.

INSIDE
WINDOW BLINDS.

INSIDE WINDOW BLINDS are a comparatively modern convenience, superseding, to a great extent, the old style of outside shutters which were in such general use in former years. Outside Shutters, although adequate enough to all demands put upon them as a means of keeping out extremes of heat and cold, are yet so clumsy and unmanageable as well as unsightly, as to have long since made evident the imperative necessity for some form of blind, which, while lacking none of such merits as might be possessed by the old style of Shutters, should also be less troublesome to handle and more neat in appearance.

For about half a century past the Inside Folding Blinds have met with a general acceptance as most nearly meeting these requirements, and at the present time even they are more in use than any other form of Inside Blind. Still, although this was so vast an improvement on what had preceded it, the Inside Blind was yet far from perfect. It was still comparatively cumbersome in arrangement, and had numerous other faults which have since led to the introduction of various other styles, such as: Venetian, Rolling, Horizontal and Vertical Sliding Blinds.

Among these the Vertical Sliding Blinds, although of but recent introduction, have already taken front rank. So general and emphatic has been the approval with which they have been received among professionals and experts in their lines of business, that we feel perfectly safe in predicting that they will be in almost universal use in the near future.

The special feature of the Vertical Sliding Blind is, that instead of being hung in folds, it slides up and down in the window like the sash. The convenience of this arrangement in operation is obvious; quite as evident is the advantage of there being no longer any necessity for opening the Shutters out towards the room, whereby the chances of injury to curtains and lambrequins is obviated. The saving of space, the more neat appearance and greater general utility, are all factors wherein its superiority to the ordinary form of Folding Blind is incontrovertible.

Of the several kinds of Sliding Blinds now on the market, we, as the manufacturers of the "Willer Sliding Blind," claim for it that the combination of the latest and most valuable improvements, with moderation of price and the highest quality of workmanship, fully entitle it to the leading position it holds in both popular and professional esteem, and we think a perusal of the following pages will lead the reader to endorse this opinion.

THE "WILLER" SLIDING BLINDS—GENERAL DESCRIPTION.

These Blinds are made to slide up and down, same as sash, instead of being hung in folds or on hinges.

They are made in sections or compartments; one, two, three, four, five or six sections to the window, as desired, or as occasion may require. These sections may operate within the space of the window-opening without pockets, or they may run into a bottom pocket, or into a top pocket, or into both a top and a bottom pocket specially provided for such purpose.

They can be applied to old window frames as well as new.

The different sections operate independently of each other and are not connected by cords, pulleys or other intricacies. This enables one to open any part of the blinds, either at the top, middle or bottom of the window, as much as is desired.

Each section is balanced by two or more adjustable springs, which hold the different sections in place at any point in the window. These springs can be adjusted to suit the exact weight of each section; each spring has a movable wooden block permanently attached to it, which bears against the wooden sliding strip or Guide-way in which the different sections run, and does not mar or chafe the same in any shape or manner.

Each section of blind is made five-eighths [⅝] of an inch in thickness, has mortised and tenoned joints, moulded stiles and rails, and is as neat and durable as any blind made.

Rolling Slats, Stationary Slats or Solid Panels can be had in any or every section of each set of blinds to suit the tastes of each individual purchaser.

The Rolling Slats that we employ are a distinct feature of the "Willer" Blinds. They are connected and operated by our patented method, and have no unsightly wooden rod in front of the same as usually employed in Rolling Slat Blinds. There are no staples to come out, no broken rods and slats to contend with in these blinds.

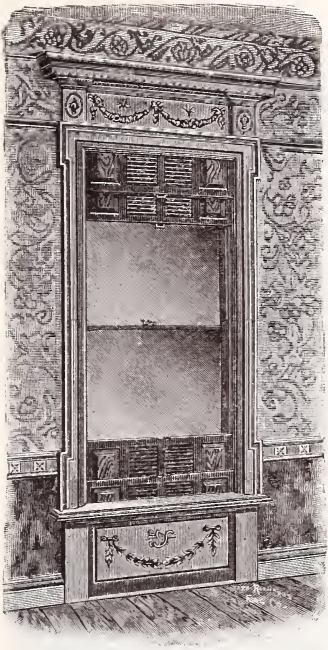
The Sliding Strips furnished with these Blinds are so placed in the window-frame that the sash can be taken out to be cleaned or repaired without taking off the Sliding Strips or Blinds.

Each section of blind can be removed from the window in an instant by slightly pressing same to one side.

Each set of blinds is trimmed with complete sets of Hardware, Finger Plates, Drop Handles, etc., of our own pattern and construction, in imitation or genuine bronze, nickel-plate, etc.

The "Willer" Sliding Blinds are finished complete, plain varnished, rubbed, or rubbed and polished, natural color, or stained in any of the known woods, and are made only to order.

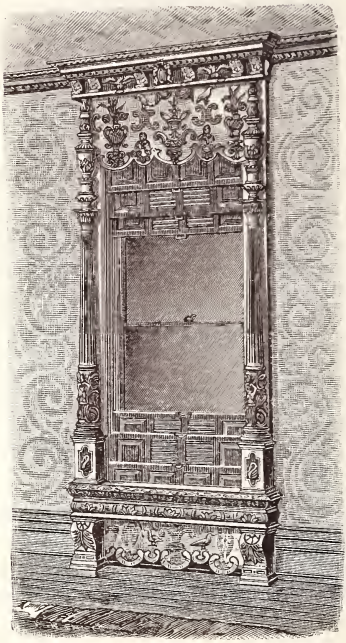
For the convenience of our customers in ordering, we have divided our blinds into classes, each class comprising a different form of applying the blinds to the Windows. On the following pages we exhibit illustrations of each class, together with a brief description of each.



CLASS "A."

Four Sections to the Window, with Pockets at bottom and top.

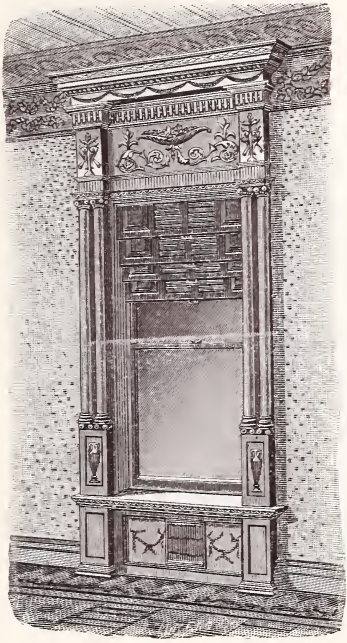
Two sections slide into a bottom pocket and two sections into a top pocket. Guide-ways have two grooves each and extend into both pockets. The entire window can be uncovered by sliding the different sections into their respective pockets.



CLASS "B."

Six Sections to the Window, with Pockets at bottom and top.

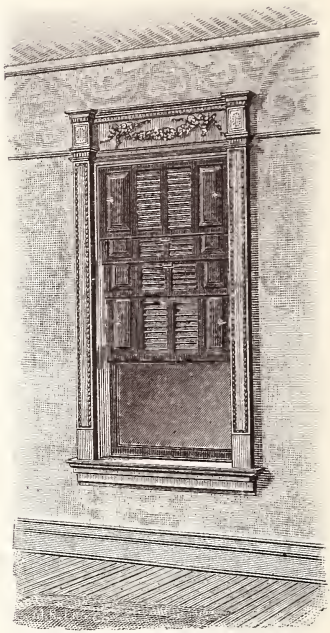
Three sections slide into a bottom pocket and three sections into a top pocket. Guide-ways have three grooves each and extend into both pockets. The entire window can be uncovered by sliding the different sections into their respective pockets.



CLASS "C."

Four Sections to the Window, with Pocket at top only.

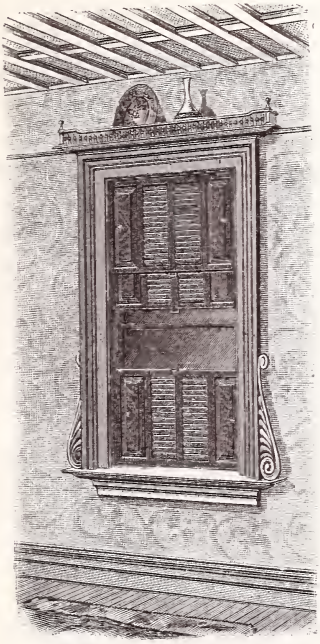
All four sections slide into the top pocket. Guideways have four grooves each and extend into the top pocket. The entire window can be uncovered by sliding all four sections into the top pocket.



CLASS "D."

Four Sections to the Window. No Pockets.

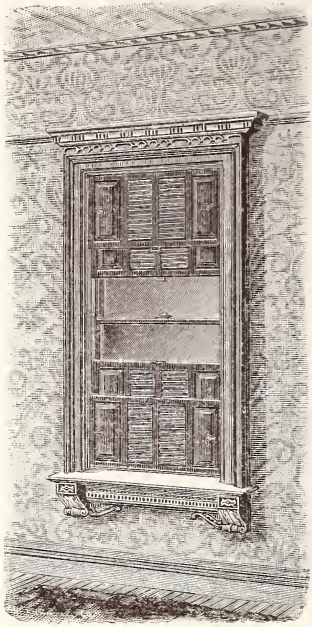
All four sections slide within the space of the window-opening. Guide-ways have four grooves each. Three-quarters of the window can at all times be uncovered by sliding all four sections to either the top or bottom part of the window.



CLASS "E."

Three Sections to the Window. No Pockets.

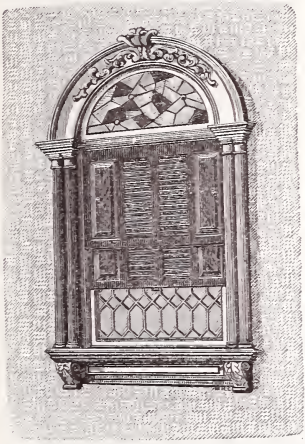
All three sections slide within the space of the window-opening. Guide-ways have three grooves each. Two-thirds of the window can at all times be uncovered by sliding all three sections to either the top or bottom part of the window.



CLASS "F."

Four Sections to the Window. No Pockets.

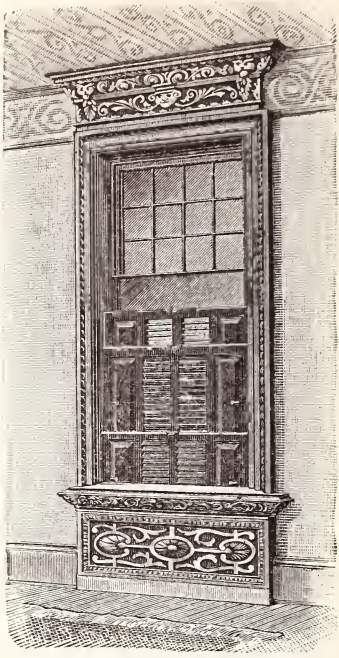
All four sections slide within the space of the window-opening Guide-ways have only two grooves each. One-half of the window can at all times be uncovered.



CLASS "G."

Two Sections to the Window. No Pockets.

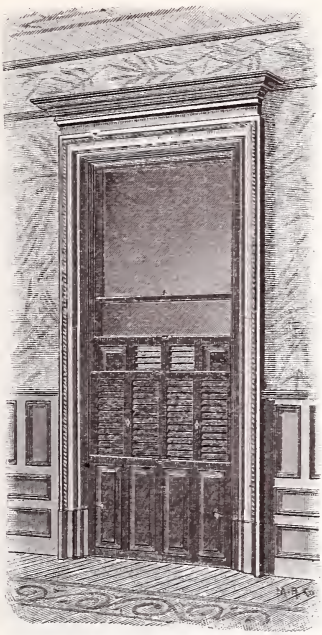
All two sections slide within the space of the window-opening. Guide-ways have two grooves each. One-half of the window can at all times be uncovered.



CLASS "H."

Three Sections to the Window, with Pocket at bottom.

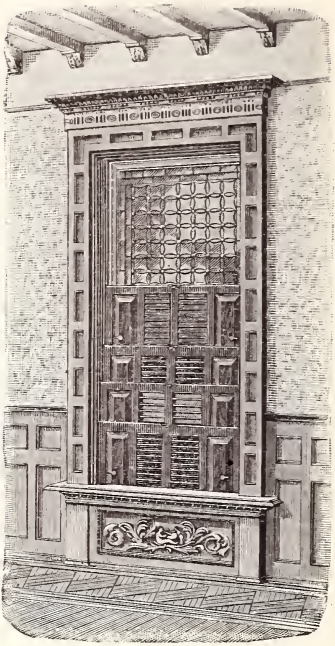
All three sections slide into the bottom pocket. Guide-ways have three grooves each and extend into the bottom pocket. The entire window can be uncovered by sliding all three sections into the bottom pocket.



CLASS "I."

Three Sections to the Window. No Pocket, but Blinds slide down to floor below window-sill.

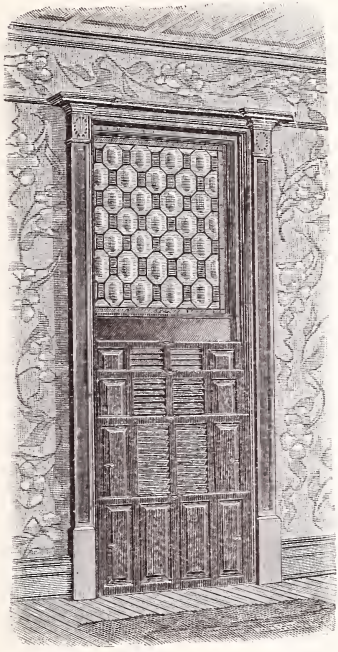
All three sections slide down to floor below window-sill. Front section of Blinds contains all panels, forming a protection for the others. Guide-ways have three grooves each and extend down to floor. The entire window can be uncovered by sliding all three sections down to floor.



CLASS "J."

Four Sections to the Window, with Pocket at bottom.

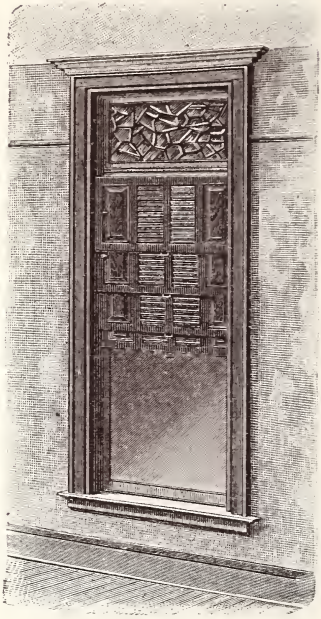
All four sections slide into the bottom pocket. Guide-ways have four grooves each and extend into the bottom pocket. The entire window can be uncovered by sliding all four sections into the lower pocket.



CLASS "K."

Four Sections to the Window. No Pocket, but Blinds slide down to floor below window-sill.

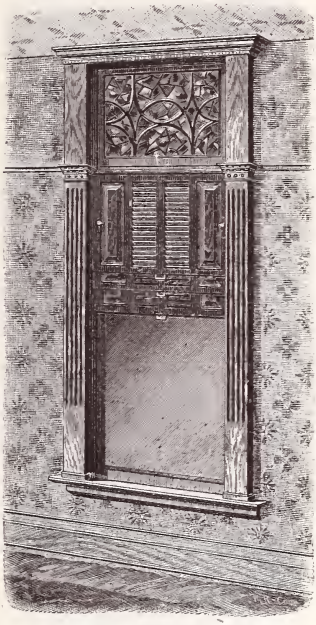
All four sections slide down to floor below window-sill. Front section of Blinds contains all panels, forming a protection for the others. Guide-ways have four grooves each and extend down to floor. The entire window can be uncovered by sliding all four sections down to floor.



CLASS "L."

Four Sections to the Window. No Pocket, but with Transom above.

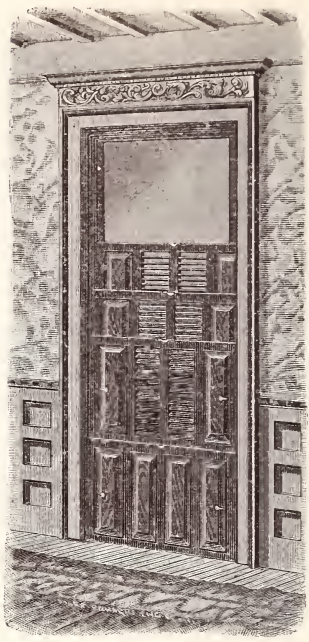
All four sections slide within the space of the window-opening. Blinds cover window up to transom-bar only. Guide-ways have four grooves each and extend to the top of the window. The entire window proper can be uncovered by sliding all four sections up in front of the transom.



CLASS "M."

Three Sections to the Window. No Pocket, but with Transom above.

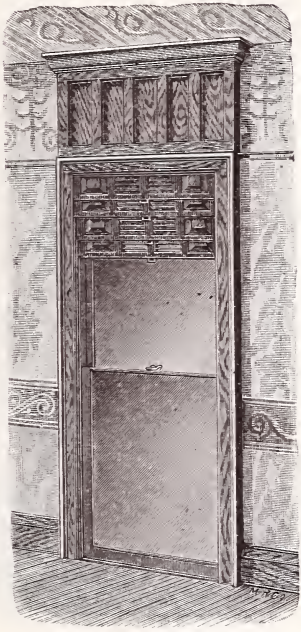
All three sections slide within the space of the window-opening. Blinds cover window up to transom-bar only. Guide-ways have three grooves each and extend to the top of the window. The entire window proper can be uncovered by sliding all three sections up in front of the transom.



CLASS "N."

Four Sections to the Window. No Pocket; Blinds and Sash reach down to floor.

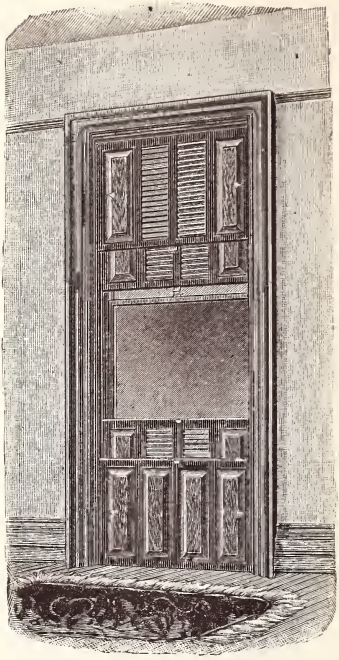
The sash in this window reach down to the floor. All four sections slide within the space of the window-opening and down to floor. Front section of Blinds contains all panels, forming a protection for the balance. Guide-ways have four grooves each and extend down to floor. Three-quarters of the window can be uncovered by sliding all four sections to either the top or bottom part of the window.



CLASS "O."

Four Sections to the Window, with Pocket at top.

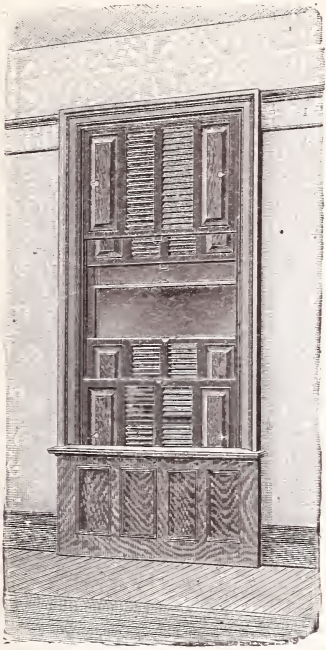
The sash in this window reach down to floor. All four sections slide into the top pocket. Guide-ways have four grooves each and extend into the top pocket. The entire window can be uncovered by sliding all four sections into the top pocket.



CLASS "P."

Four Sections to the Window. No Pocket, but Blinds reach down to floor.

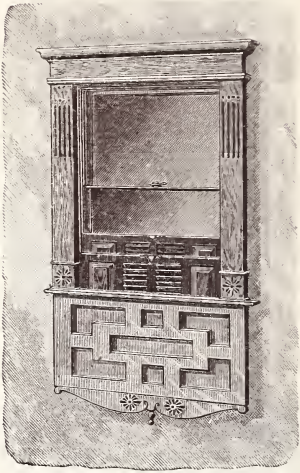
This is a modification of Class F. Two sections of Blinds run down to floor below window-sill, while the other two sections remain within the space of the window-opening. Front section of Blinds contains all panels, forming a protection to the section behind when both are down. Guide-ways have but two grooves each and extend down to floor. Three-quarters of the window can be uncovered by sliding two sections down to floor.



CLASS "Q."

Four Sections to the Window, with Pocket at bottom.

This is also a modification of Class F. Two sections of Blinds run down to floor into a lower pocket, while the other two sections remain within the space of the window-opening. Guide-ways have but two grooves each and extend into the lower pocket. Three-quarters of the window can be uncovered by sliding two sections into the lower pocket.



CLASS "R."

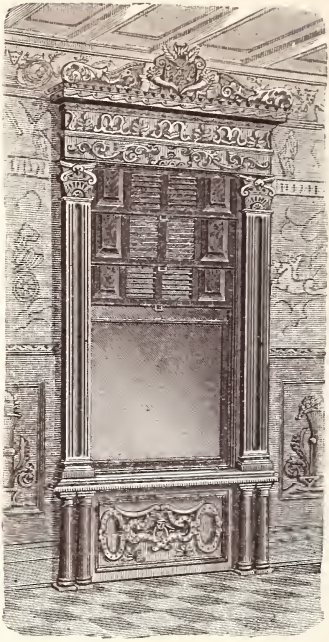
Two Sections to the Window, with Pocket at bottom.

This is a modification of Class G. Both sections slide into a bottom pocket. Guide-ways have two grooves each and extend into the bottom pocket. The entire window can be uncovered by sliding both sections into the bottom pocket.

CLASS "S."

Two Sections to the Window, with Pocket at top.

This is also a modification of Class G. Both sections slide into the top pocket. Guide-ways have two grooves each and extend into the top pocket. The entire window can be uncovered by sliding both sections into the top pocket.



CLASS "T."

Three Sections to the Window, with Pocket at top.

This is a modification of Class E. All three sections slide into the top pocket. Guide-ways have three grooves each and extend into the top pocket. The entire window can be uncovered by sliding all three sections into the top pocket.

WHICH CLASS OF BLINDS WILL BEST SUIT MY WINDOWS?

THIS question has often been asked us and relates principally to the main windows of the house. We can only answer it by stating that that depends entirely upon circumstances. In the foregoing pages we have limited ourselves to a brief description of the peculiarity of arrangement of each class, without recommending any particular class as superior to another. The first question to be determined upon when endeavoring to select the most appropriate class for your windows, is whether you desire to adapt the Blinds to the windows or whether you desire to adapt the windows to the Blinds; or, in other words, are the Blinds intended for windows already in the building, or are the window-frames not yet made? In the first case the selection of the proper class is limited to such as are adaptable to the space at your disposal in the jamb of the frame. In the second case, however, you can select any class you choose, and all other parts can be adapted to the same. It is therefore our advice that an owner and his architect make a selection of the class or classes, which in their opinion best suits the purpose, before ordering the window-frames, and adapt these window-frames to the class of Blinds selected.

An important consideration in the selection of the proper class is the item of cost, the special preparations required for some classes making them cost more than some of the others. When perfection of arrangement is the first, and the item of cost only a secondary consideration, the classes provided with pockets for the purpose of entirely uncovering the window, would unquestionably be the most desirable. For all ordinary purposes, however, Class D for windows 7 ft. high and over, and Class E for windows 4 ft. and over, will be found to give very good satisfaction.

The writer of this built himself a house in which he used Class D Blinds for his first-story and Class E Blinds for his second-story windows, and no person in the family has in any manner deplored the absence of pockets.

FIRST AND SECOND QUALITY.

THE "WILLER" SLIDING BLINDS ARE FURNISHED IN TWO QUALITIES, FIRST AND SECOND. BELOW WE GIVE A DESCRIPTION OF EACH.

FIRST QUALITY.

This quality we guarantee to be in point of workmanship and finish equal and in most cases superior to any that can be produced, and we make it a point to have the same suitable and acceptable for the very best class of buildings, and to satisfy the demands of the most fastidious.

The panels in this class are center-raised; stiles, rails and mullions have molded edges, the material is specially selected as to grain and color, and all are smoothed off and sand-papered thoroughly before being finished.

In finishing this quality we first use a coat of Wheeler's Patent Wood Filler, a coat of white (or orange) pure gum alcohol shellac, and a coat of the best hard gum coach varnish or oil finsh. When ordered rubbed or polished finish, we rub the same with pumice stone and oil. With this grade we furnish Guide-ways of hard-wood and supply full sets of Genuine Bronze Hardware.

SECOND QUALITY.

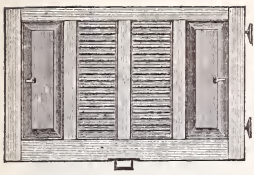
This quality we manufacture to satisfy the demand of some wanting a cheaper grade for use in buildings of less importance.

This quality has flat panels instead of raised panels, and nothing is rubbed or sand-papered except what can be done by machinery. The panels and face of the Blinds are sand-papered by a machine sander. The material is nearly clear, but not specially selected; only minor imperfections are allowed. Guide-ways for soft-wood Blinds are also furnished in soft-woods. Hardware is of Imitation Bronze. Rolling Slats are admitted to the extent of one-half of the divisions only.

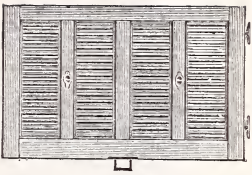
In all other respects this quality is the same as our first quality, having same thickness, same springs, full sets of hardware and the same general appearance, only lacking the finer finish of the first quality.

FINISHING OF BLINDS.

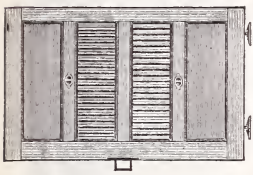
We furnish all of our Sliding Blinds and our patented Folding Blinds finished complete—that is, varnished or oil finished—as may be ordered. In no case will we furnish any of these Blinds, with the exception of the "Regular" Folding Blinds, "unfinished" or "in the white." We finish Blinds in three different grades—plain or varnished finish, rubbed finish, and rubbed and polished finish, as described on page 35.



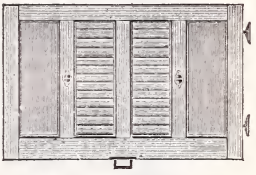
Appearance of one section, first quality, four divisions wide, the two outside divisions filled with raised panels and the two inside divisions with Rolling Slats.



Appearance of one section, first quality, four divisions wide, all four divisions filled with Rolling Slats.



Appearance of one section, second quality, four divisions wide, the two outside divisions filled with solid flat panels and the two inside divisions with Roll'g Slats.



Appearance of one section, second quality, four divisions wide, the two outside divisions filled with solid flat panels and the two inside divisions with Stationary Slats,

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ENLARGED VIEWS OF DIFFERENT SECTIONS OF BLINDS,

Showing various combinations of Rolling and Stationary Slats, Raised and Flat Panels, first and second quality, and the application of Finger Plates, Drop Handles and Springs.

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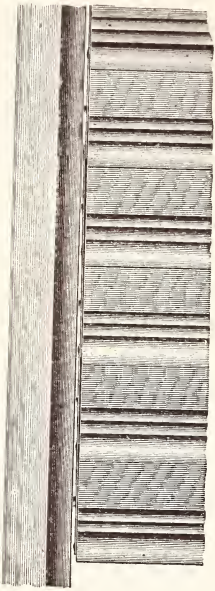
THE WILLER MANUFACTURING COMPANY,
MILWAUKEE, WIS.



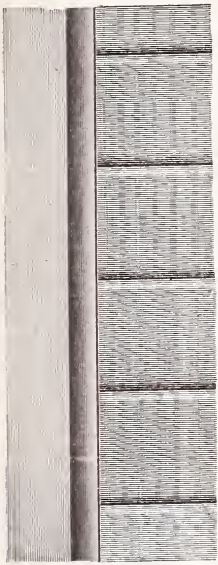
THE "WILLER" SYSTEM OF ROLLING SLATS

WITHOUT A ROD IN FRONT OF THE SLATS.

USED ONLY IN THE "WILLER" BLINDS.

Patented Feb. 10th, 1885.

The above illustrates the neatest and simplest system of operating rolling slats ever invented. The slats being perfectly balanced on both sides, remain in any position desired, and light can be admitted through these slats at any angle. The unsightly wooden rod usually employed in other Rolling Slat Blinds is entirely dispensed with, adding much to the beauty and fine appearance of these Blinds. We are enabled by the above system to introduce *Rolling Slats* in *any* and *every* section and division of our Blinds, and have all of the different sections in the window run closely by each other, preventing light from coming in between the sections when Blinds are closed. These important features can be had only by using the "Willer" Blinds.



THE "WILLER" SYSTEM OF STATIONARY SLATS,

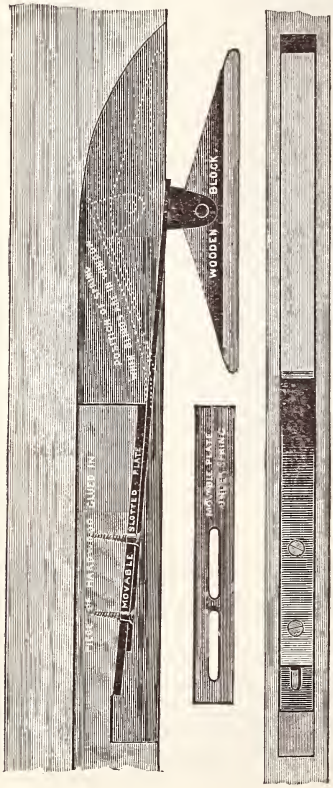
USED ONLY IN THE "WILLER" BLINDS.

The above illustrates our system of Stationary Slats. It takes the place of solid panels, and from a distance gives the Blinds the appearance of being fitted with Rolling Slats. We manufacture the above only to satisfy the demands of some who want a cheaper article; we do not recommend the use of stationary slats except in cases where cheapness of cost is the prime requisite.

THE "WILLER" ADJUSTABLE SPRING,

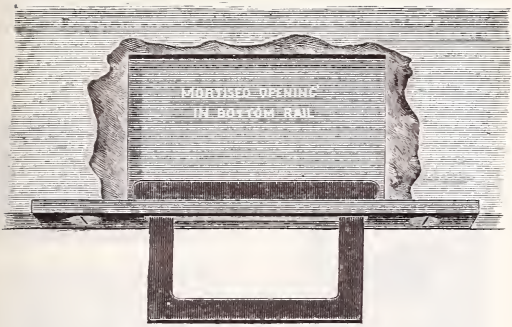
PATENTED AUG. 3, 1886.

Used Exclusively in The "Willer" Sliding Blinds and The "Willer" Sliding Window Screens.



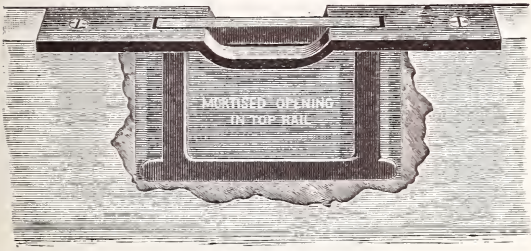
Annexed engraving is a reduced size illustration of our Balancing Spring. The pivoted friction block at the end is of wood; it has better adhesive qualities than metal, and when blinds are moved up and down, does not mar or scratch the surface of the guide-ways. By the use of this spring, the guide-ways are always clean and smooth. The slotted plate shown in cut lies under the spring and is moved forward and back to increase or diminish the power of the spring. The spring steel is specially manufactured for us and is made of the very best material suitable for the purpose.

Where blinds are of extra large size, we put three and four springs to each section, according to space. We also furnish an extra spring plate under each spring, which increases the power to double its original capacity.



MOVABLE DROP HANDLE AND FLAT PLATE.

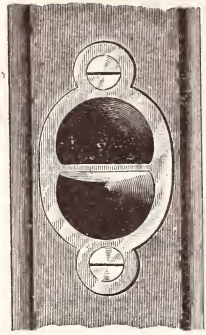
This Drop Handle and Plate is attached to the bottom rail of all sections in blinds of all classes. When the sections of blinds are up, they are readily drawn down by this handle. When they are down, the handle is out of sight, as it then slides back into the mortise.



MOVABLE TOP LIFT.

CONCAVE PLATE AND DROP HANDLE.

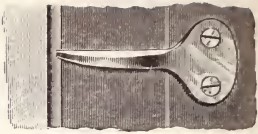
This Lift is attached to the top rail of all sections of blinds which go into a bottom pocket. The handle is readily drawn out to lift up the section of blinds with.



FINGER PLATE No. 1.

PAT'D DEC. 6TH, 1887.

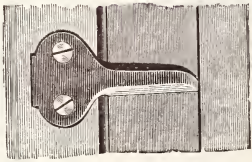
Used on all sections of blinds containing *all* rolling slats; can also be used on sections partly filled with panels and partly with slats.



FINGER PLATE No. 2.

PATENT NOW PENDING.

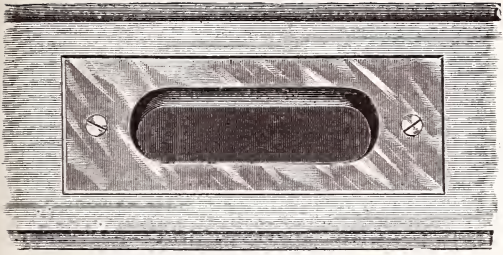
Used only on sections of blinds partly filled with raised panels. It can not be used on sections containing all slats, or sections having flat panels. Unless distinctly otherwise ordered, we use this plate on all first quality blinds having raised panels for the outside divisions of every section.



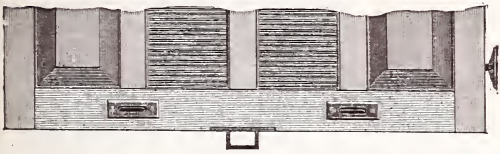
FINGER PLATE No. 3.

PAT'D JULY 15TH, 1884.

We use this plate on second quality blinds, having flat panels or stationary slats for the outside divisions. It can also be used in first quality blinds, having raised panels for the outside divisions. It can not be applied on sections containing all rolling slats, but can be applied on sections containing stationary slats.



CUT, REDUCED SIZE, OF FINGER PLATE NO. 4,
OR SASH LIFT.



Cut showing application of Finger Plate No. 4, on bottom rail of Blind section.

FINGER PLATE No. 4.

This Finger Plate is really a Sash Lift, reduced in size so as to be used on our Sliding Blinds. It is manufactured from our own patterns, and we will furnish it to our customers who at the same time wish to use it as a Sash Lift. It is beautifully polished and has beveled edges on front plate. We put these on blinds only upon special order, and when wanted in place of any of the other three styles, we charge extra for them at the rate of 25 cents each for Genuine Bronze, and 15 cents each for Berlin Bronze. When wanted in addition to any of the other styles, the extra charge will be 30 cents each for Genuine Bronze and 20 cents each for Berlin Bronze.

This Finger Plate No. 4 is designed by us to be used only on extra heavy Blinds, where one cannot as conveniently move the blinds by using Finger Plates Nos. 1, 2 or 3. It is well to use them in addition to the others on all hardwood blinds over three feet in width. For all ordinary sized windows Finger Plates Nos. 1, 2 and 3 will be found sufficiently satisfactory.

AS A SASH LIFT

we will furnish them to the trade, as follows:

Berlin Bronze, with screws, - -	per doz.	$2 50
Genuine " " - - - -	"	3 50
French or Gold Brass, - - - -	"	3 50
Nickel Plate, Antique Copper, Antique Brass, Copper Finish, Gilt Finish, Oxidized Silver (Dark Blue) and Old Iron,	"	4 50
Genuine Silver Plated, bright, - -	"	6 00

PRICE LIST OF

THE "WILLER" SLIDING BLINDS.

THE FOLLOWING PRICES ARE PER LINEAL FOOT IN HEIGHT.

MATERIAL.	2 AND 3 SECTIONS HIGH. CLASSES E, G, H, I, M, R, S AND T.								4 SECTIONS HIGH. CLASSES A, C, D, F, J, K, L, N, O, P AND Q.							
	ROLLING SLATS, ROLLING SLATS AND PANELS, ROLLING AND STATIONARY SLATS.				STATIONARY SLATS, SOLID PANELS, STATIONARY SLATS AND PANELS.				ROLLING SLATS, ROLLING SLATS AND PANELS, ROLLING AND STATIONARY SLATS.				STATIONARY SLATS, SOLID PANELS, STATIONARY SLATS AND PANELS.			
WHITE PINE, HARD (OR NORWAY) PINE, CYPRESS AND POPLAR (OR WHITEWOOD), finished in natural color of wood or stained in imitation of Cherry, Walnut or Mahogany. (For prices of Hardwood Blinds, see next page).	1st Quality Plain or Gloss Fin.	1st Quality Rubbed Finish.	1st Quality Rubbed & Polished F.	2d Quality Plain or Gloss Fin.	1st Quality Plain or Gloss Fin.	1st Quality Rubbed Finish.	1st Quality Rubbed & Polished F.	2d Quality Plain or Gloss Fin.	1st Quality Plain or Gloss Fin.	1st Quality Rubbed Finish.	1st Quality Rubbed & Polished F.	2d Quality Plain or Gloss Fin.	1st Quality Plain or Gloss Fin.	1st Quality Rubbed Finish.	1st Quality Rubbed & Polished F.	2d Quality Plain or Gloss Fin.
2 Divs. wide, 12-20 in. in width	90	1 00	1 20	75	80	90	1 10	65	1 10	1 25	1 45	95	1 00	1 15	1 35	85
3 Divs. wide, 18-30 in. in width	1 10	1 20	1 45	90	1 00	1 10	1 35	80	1 30	1 45	1 70	1 10	1 20	1 35	1 60	1 00
4 Divs. wide, 24-40 in. in width	1 25	1 40	1 70	1 10	1 15	1 30	1 60	1 00	1 50	1 70	2 00	1 30	1 40	1 60	1 90	1 20
5 Divs. wide, 30-50 in. in width	1 50	1 70	2 00	1 25	1 35	1 55	1 85	1 15	1 75	2 00	2 30	1 50	1 60	1 85	2 15	1 40
6 Divs. wide, 36-60 in. in width	1 75	2 00	2 30	1 50	1 60	1 85	2 15	1 35	2 00	2 30	2 60	1 75	1 85	2 15	2 45	1 60
7 Divs. wide, 42-70 in. in width	2 00	2 30	2 65	1 75	1 85	2 15	2 50	1 60	2 25	2 60	2 95	2 00	2 10	2 45	2 80	1 85
8 Divs. wide, 48-80 in. in width	2 25	2 60	3 00	2 00	2 10	2 45	2 85	1 85	2 50	2 90	3 30	2 25	2 35	2 75	3 15	2 10

For Blinds, 6 sections high (Class B), add 40 per cent. to prices of Blinds 3 sections high.

FIRST QUALITY BLINDS Include Genuine Bronze Hardware and Hardwood Guide-ways for Softwood Blinds. No deductions made for Softwood Guides. Blinds of this quality may be filled with all Rolling Slats, or a combination of Raised Panels and Rolling Slats, or a combination of Stationary Slats and Rolling Slats.

SECOND QUALITY BLINDS Include Hardware of Imitation or Berlin Bronze and Softwood Guide-ways for Softwood Blinds; Hardwood Guide-ways for Hardwood Blinds. If Hardwood Guide-ways are wanted with Softwood Blinds they will cost 50 cents per window extra. Genuine Bronze Hardware for second quality also cost 50 cents per window extra. Rolling Slats will be furnished only to the extent of one-half of the divisions; the other divisions must be filled with either Stationary Slats or flat panels. Blinds with all Rolling Slats must be ordered in first quality.

Price List for Hardwood Sliding Blinds.

For Pine, Cypress and Poplar Frames, with Hardwood Panels and Slats, add to foregoing prices, ... 25 per cent.
For Hard Pine Frames, with Curly Southern Pine Panels and Slats, also for California Red-wood, add to foregoing prices.....25 per cent.
For Ash, Plain Red or White Oak, Butternut, Maple, Birch, Chestnut, Sweet Gum and Curly Southern Pine, add to the foregoing prices.....40 per cent.
For Cherry, Walnut, Quarter-sawed Red or White Oak and Quarter-sawed Sycamore, add to foregoing prices.....50 per cent.
For Plain Maple Frames, with Birds-eye or Curly Maple Panels and Slats, add to foregoing prices, ... 60 per cent.
For Birds-eye and Curly Maple, add to foregoing prices..... 75 per cent.
For Hardwood Frames, with Mahogany Panels and Slats, add to foregoing prices.....75 per cent.
For Mexican Mahogany or Baywood, add to foregoing prices.....100 per cent.
For Cuba or St. Domingo Mahogany, add to foregoing prices.....150 per cent.

SPECIAL HARDWARE AND TRIMMINGS.

The standard Hardware for first quality Blinds is *Genuine Bronze*, and is included in price list for Blinds. All of our Genuine Bronze Hardware has a plain polished finish and no reliefs or ornaments. When the Blind Trimmings are wanted to match other hardware in the rooms, any of the following finishes will be furnished upon special order and an extra price charged per set, as follows:

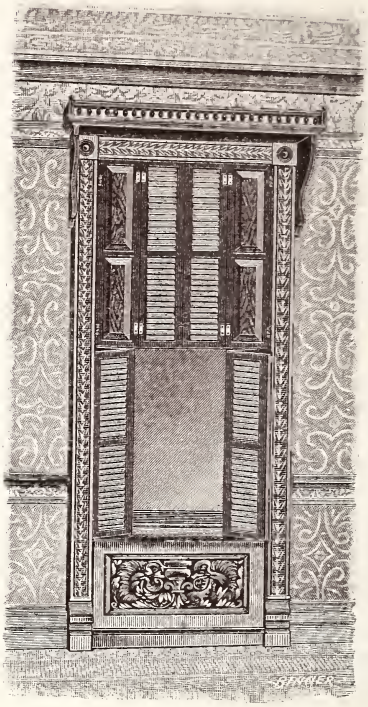
For French or Gold Brass, add 25c per set of Blinds 3 sections high. 40c per set of Blinds 4 sections high.
For Antique Copper, Antique Brass, Copper Finish, Gilt Finish, Oxidized Silver (Dark Blue), Nickel Plate and Old Iron, add 50c per set of Blinds 3 sections high. 75c per set of Blinds 4 sections high.
For Genuine Silver Plated, Polished, add $1.50 per set of Blinds 3 sections high. $2.00 per set of Blinds 4 sections high.

For Finger Plate No. 4, furnished instead of the others, add for each Finger Plate in Berlin Bronze, 15c; Genuine Bronze, 25c; Antique Copper, etc., 35c.

For Finger Plate No. 4, furnished in addition to the others, add for each Finger Plate in Berlin Bronze, 20c; Genuine Bronze, 30c; Antique Copper, etc., 40c.

PLAIN FINISH, RUBBED FINISH AND RUBBED AND POLISHED FINISH.

These are three distinct grades of Finishes. Plain Finish or Gloss Finish consists of one coat of Wheeler's Wood Filler, one coat of Pure Spirit Shellac and one coat of Best Coach Varnish and Oil Finish. Rubbed Finish includes the last coat rubbed down to a dead polish with Pumice Stone and Oil, and Rubbed and Polished Finish includes the additional work of again polishing the work after being rubbed down.



The " Willer Patent " Inside Folding Blind.

Four folds, outside folds paneled, inside folds with rolling slats. Rolling slats operated by our patented method without the unsightly wooden rod in front of the same.

The "Willer Patent" Inside Folding Blinds.

This Blind is an Inside Folding Blind, the rolling slats of which are operated by our patented method, dispensing with the usual wooden rod in front of the slats.

We manufacture this Blind to meet the demand for a first-class Folding Blind and the wants of such persons as do not wish to use our Sliding Blinds or any other form of Blind. This Folding Blind is warranted first-class in every respect and is especially designed for use in the very best class of buildings.

The system of operating slats is fully explained and illustrated on page 28 of this catalogue, and a sample of the slats may be obtained as stated on page 39.

This Folding Blind we furnish only finished; that is, varnished and oil finished complete.

As a rule we make these Blinds 7/8 in. thick; we will however furnish them 1 1/8 in. thick upon special order.

PRICE LIST—FINISHED. These prices are per lineal foot in height.

MATERIAL.	2 FOLDS. Up to 20 inches wide.	3 FOLDS. Up to 30 inches wide.	4 FOLDS. Up to 40 inches wide.	6 FOLDS. Up to 60 inches wide.
White Pine, Hard Pine, Cypress or Poplar, natural or stained.....Plain Finish	75	1 00	1 25	1 75
Rubbed Finish	1 00	1 25	1 50	2 00
Pine or Poplar Frames with Hardwood or with Curly Southern Pine Panels and Slats...Plain Finish	1 25	1 50	1 75	2 50
Rubbed Finish	1 50	1 75	2 00	2 75
Ash, Plain Red and White-Oak, Butternut, Maple, Birch, Chestnut, Red-wood, Sweet Gum and Curly Southern Pine.....Plain Finish	1 50	1 75	2 00	2 75
Rubbed Finish	1 75	2 00	2 25	3 00
Cherry, Walnut, Quarter-sawed Sycamore, Quarter-sawed Red and White-Oak.....Rubbed Finish	2 00	2 25	2 75	3 75
Mahogany, Mexican.....Rubbed Finish	2 75	3 25	4 00	6 00

"Regular" Inside Folding Blinds.

ON account of the many requests from our agents, we have this year concluded to embody the **"Regular" Inside Folding Blinds** in our Catalogue. This Blind is the same as can be manufactured by any Sash, Door and Blind manufacturer, it being the regular Blind with the usual wooden rod to operate the slats with. However, many of these manufacturers turn out so inferior a Blind, that we have been induced to manufacture the Regular Blind and to adopt therefor a uniformity of grade and workmanship that will secure for us the continuous patronage of such as do not wish to use any other style or form of Blind.

This Blind we furnish only "in the white" (unfinished), and either 7/8 or 1 1/8 inch thick. Slats and panels can be arranged to suit. For combinations of panels and slats see illustrations in large calalogue. When ordering these Blinds be sure to mention "Regular," to distinguish the same from the "Willer Patent," described on the preceding page.

PRICE LIST—UNFINISHED. These prices are per lineal foot in height.

MATERIAL.	2 FOLDS. Up to 20 In.	3 FOLDS. Up to 30 In.	4 FOLDS. Up to 40 In.	6 FOLDS. Up to 60 In.
White Pine, Hard Pine, Cypress or Poplar	45	60	75	1 10
Pine or Poplar Frames, with Hardwood or with Curly Southern Pine Panels and Slats	75	1 00	1 20	1 75
Ash, Plain Red and White-Oak, Butternut, Maple, Birch, Chestnut, Redwood, Sweet Gum, and Curly Southern Pine	90	1 20	1 50	2 25
Cherry, Walnut, Quarter-sawed Sycamore, Red and White Oak	1 00	1 50	1 75	2 50
Mahogany, Mexican	1 75	2 50	3 00	4 50

DIRECTIONS FOR ORDERING INSIDE FOLDING BLINDS. In all cases the order should give the exact size of opening where blinds are to be hung; the distance from top of window to center of meeting rail of sash or to where the blinds are to be cut; number of folds and arrangement of panels and slats. If blinds fold in pockets at sides of window, give size of pocket, or send detail drawing of pocket showing how the blinds are to fold into same. *Printed Order Blanks, giving complete instructions, will be furnished upon request to any one desiring to favor us with an order.*

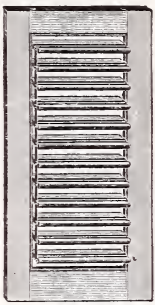
SAMPLE SECTION OF OUR ROLLING SLATS.

This sample illustrates our patent system of operating Rolling Slats without the usual wooden rod in front of the slats. It is gotten up at the request of many who fully understand all of the workings of our Blinds from our printed descriptions with the exception of the slats and wish to see these before placing their order.

We will send this *free* by mail to any address upon receipt of 16 cents in stamps for postage.

Sample section of our *Stationary Slats* as above.

Cut, reduced size, of Genuine Bronze Hook.



PULL-RODS FOR BLINDS AND SASH.

These Rods consist of a handsomely turned stick of wood with a Genuine Bronze Hook secured to one end of same.

This Hook is of our own pattern and is specially designed for the purpose of drawing down the upper sections of Blinds in large windows when they cannot be reached with the hands.

They are also of excellent service in drawing down the upper sash in windows.

One of these Rods should be in every room of a house and will be furnished to suit the wood and the finish of the room.

PRICE LIST.

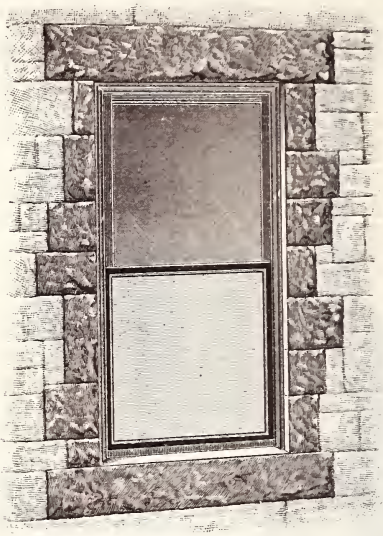
HIGHLY POLISHED AND FINISHED.

	3.0 long.	3.6 long.	4.0 long.	5.0 long.
Oak, Ash, Butternut, Maple, Gum, Birch, Cherry, Walnut, etc.,	$ .75	$ .75	$ .90	$1.00
Mahogany,	1.00	1.00	1.15	1.25

THE "WILLER" SLIDING WINDOW SCREENS.

MADE TO ORDER ONLY.

Warranted the very best in the market for fine residences and other buildings.



The above Screens slide up and down on small strips secured to the window frame. They can be placed on the inside or outside of sash, and cover either top or bottom sash. They are balanced by springs and can be moved to any part of the window, remaining where-ever placed.

They can be removed from the window at once by pressing to one side. They can be stored over winter and as easily replaced in spring. The springs are adjustable to suit the weight of the screens and are the same springs we use on our famous Sliding Blinds. The construction of our spring warrants an easy and smooth movement to the screen.

The Screens are varnished with best quality outside coach varnish, the nailed edges of wire covered with a neat moulding, and suitable lifts are attached to the side stiles of each screen.

For full particulars send for Special Screen Circular.

PRICE LIST OF THE "WILLER" SLIDING WINDOW SCREENS.

For Pine Screens, stained in imitation of Cherry or Walnut, or painted any color desired.

Each Screen containing	less than	4	square feet	....	$1	50
" " "	from 4 to	6	"	....	1	75
" " " "	6 to	8	"	....	2	00
" " " "	8 to	10	"	....	2	25
" " " "	10 to	12	"	....	2	50

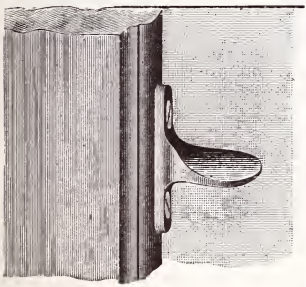
For Hardwood Screens, such as Oak, Cherry, Ash, Walnut, Butternut, Birch, etc. except Mahogany.

Each Screen containing	less than	4	square feet	....	$1	75
" " "	from 4 to	6	"	....	2	00
" " " "	6 to	8	"	....	2	25
" " " "	8 to	10	"	....	2	50
" " " "	10 to	12	"	....	2	75
" " " "	12 to	15	"	....	3	00

For each additional square foot, add 20 cents to above price list.

Above prices include sliding strips, wire nails to tack same on with and Black Japanned Screen Lifts. For genuine Bronze Screen Lifts add 25 cents per Screen.

WIRE CLOTH.—We use a fine grade of black Wire Cloth, 14 meshes to the inch, especially manufactured for us, in all our Sliding Screens and Screen Doors. Sample of this cloth sent on application.



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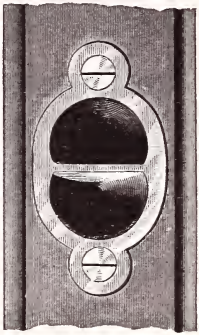


7.

WILLER'S NEW SCREEN LIFT, No. 6.

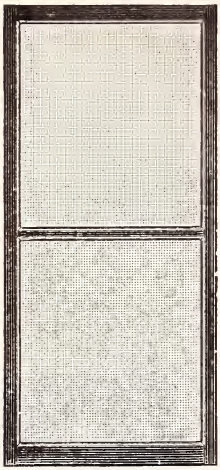
Used on all outside screens and on inside screens arranged as per style AA, shown on page 81 in large catalogue. Above we furnish in iron (black japanned) and in genuine bronze; black japanned is included in price list. For genuine bronze we charge 25c extra per screen.

SCREEN LIFT, No. 7.

Above is the same as Finger Plate No. 1 furnished with blinds. This we use as a *Screen Lift* on all Inside Window Screens arranged as per style BB shown on page 81 in large catalogue.

We furnish above in iron (Berlin bronzed) and genuine bronze. Berlin bronze is included in price list; for genuine bronze we charge 25c extra per screen.

Outside Stationary Window Screens.



THESE SCREENS cover the entire window on the outside and are set between the outside Casings or in the place usually occupied by Storm Sash and outside Blinds. A good many persons prefer this form of Screen to any other, because the window is continually covered and any part of the window can be opened without running the least chance of admitting any insects. Some persons have objected to this Screen on account of the water, in cases of heavy showers, running into the rooms, and on account of the inability of cleaning the windows, the permanent presence (for the season) of the Screen preventing ready access to the window. The first objection is overcome by the use of our Movable Flap, fully described and illustrated in large catalogue and in special screen circular, and the second can be overcome by hanging the Screen on hinges and holding the same in place by a hook and eye or other piece of hardware. These Screens can also be secured to the window by the use of small buttons screwed near the edge of the outside casings.

Upon special request we will furnish suitable hinges or buttons for the purpose.

PRICE LIST.

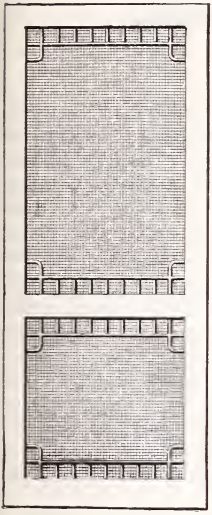
For pine Screens, stained in imitation of cherry or walnut, or painted any color desired:

Each Screen, containing	less than 4	square feet					$1 25
" " "	from 4	to 6	square	feet			1 50
" " "	" 6	to 8	"	"			1 75
" " "	" 8	to 10	"	"			2 00
" " "	" 10	to 12	"	"			2 25
" " "	" 12	to 15	"	"			2 50
" " "	" 15	to 18	"	"			2 75
" " "	" 18	to 20	"	"			3 00

For hardwood Screens, such as oak, cherry, ash, walnut, butternut, birch, etc. (except mahogany):

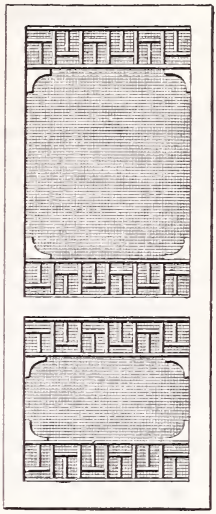
Each Screen, containing	less than 4	square feet					$1 50
" " "	from 4	to 6	square	feet			1 75
" " "	" 6	to 8	"	"			2 00
" " "	" 8	to 10	"	"			2 25
" " "	" 10	to 12	"	"			2 50
" " "	" 12	to 15	"	"			2 75
" " "	" 15	to 18	"	"			3 00
" " "	" 18	to 20	"	"			3 25

For each additional square foot over 20 feet, add 15c. No fraction of a foot figured. For movable flap, add 25c per window.



No. 24.

Pine, - - $ 6 50
Oak, etc., - 9 00
Cherry & Wal't, 10 00



No. 25.

Pine, - - $ 7 50
Oak, etc., - 10 00
Cherry & Wal't, 11 00

WIRE SCREEN DOORS.

We make a specialty of Fine Screen Doors for first-class residences, etc. These Doors are all specially made to order of the exact size and style ordered. In our large catalogue and special screen circular we publish over 50 different designs.

Interior Wood Work

FOR FIRST-CLASS RESIDENCES AND OTHER BUILDINGS.

WE have first-class facilities for doing above work, and are in a position to contract for such work put up in any part of the country. We furnish cabinet-makers to put up the work and finishers to finish the same. We also furnish such work separately, either "in the white" or finished, f. o. b. cars in Milwaukee. We want nothing but first-class work in this line. We have no catalogue for such work nor do we furnish any special designs or drawings, except for stair work. We do this work only according to plans, designs, details and specifications furnished us by the architects. A large number of the finest residences in Milwaukee have been fitted out by us, and as to the quality of workmanship and our abilities for carrying out our contracts we refer to any of the following architects of the city of Milwaukee, for whom we have done work in this line:

E. TOWNSEND MIX & CO., Evening Wisconsin B'ld'g.
H. C. KOCH & CO., Northwestern Mutual Life Ins. Co. Building.
H. P. SCHNETZKY, 107 Wisconsin Street.
FERRY & CLAS, 421 Milwaukee Street.
JAMES DOUGLAS, 427 Milwaukee Street.
C. A. GOMBERT, 44 Mack Block.
FRED. VELGUTH, Second Ward Bank Building.
CRANE & BARKHAUSEN, 89 Wisconsin Street.
G. H. LEIPOLD, Kuolt's Building, State Street.
E. V. KOCH & CO., Colby & Abbot Building.
H. J. VAN RYN, Plankinton Bank Building.
C. F. RINGER, 107 Wisconsin Street.

OUR STAIRWORK

—AND—

Hardwood Finish Department

IN former years we furnished all kinds of mill work for all classes of buildings. During late years, however, we have concentrated all our efforts, outside of our Blind and Screen Department, upon the furnishing of Fine Interior Hardwood Woodwork for first-class buildings only, especially the furnishing of fine Stair Cases and Stair-work. This department is under the supervision of a practical and experienced person, who has made the building of Stair Cases in all its details, and Fine Interior Woodwork for buildings, his especial study. In this line we produce work not excelled in quality and workmanship by any other firm.

The Designs in our large catalogue give the reader an idea of what we have produced and what we are capable of turning out in this line. These designs are all our own and have been specially engraved for said catalogue. The publishing of these designs will undoubtedly be appreciated by many architects, builders and others, as it will enable them to place their orders with us for neat, ornamental and artistic Stairwork of the latest designs, without being obliged to make special designs themselves. From the variety of the designs offered any one will no doubt be able to find something corresponding to his tastes or wants.

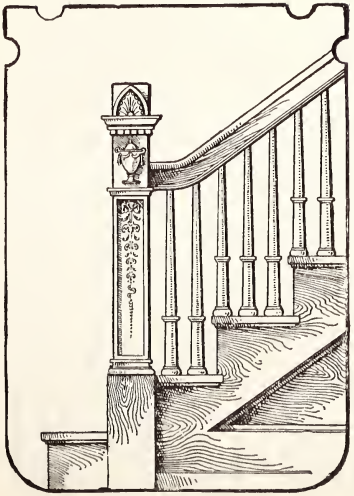


FIG. 92.

Two designs for staircases, taken from our large Catalogue, Architects' and Builders' Edition.

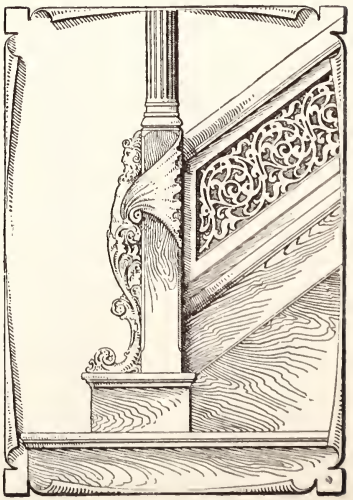
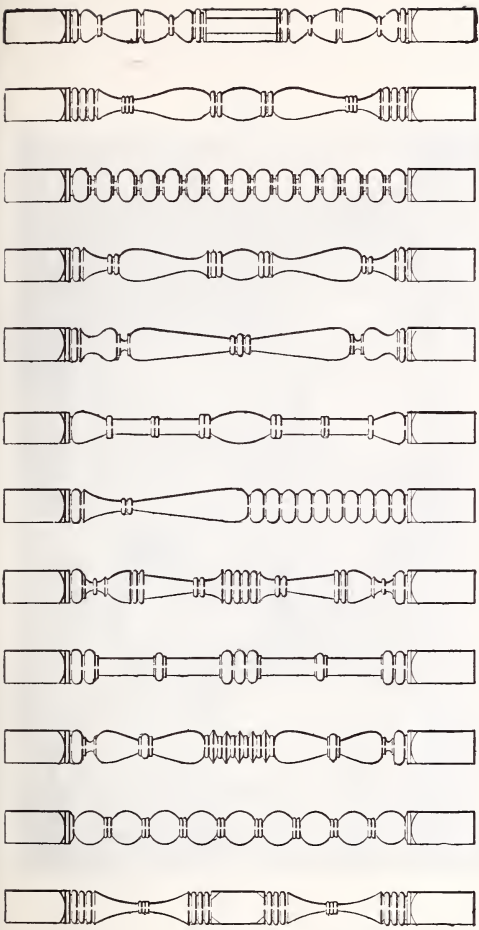


FIG. 144.



A few Designs for Balusters, taken from our large Catalogue, Architects' and Builders' Edition.

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View of Stair-case and Hall built by us in a Residence on Prospect Avenue, Milwaukee, Wis.

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